REMARKS

Applicants respectfully request reconsideration of the present application. No new matter has been added to the present application. Claims 1-28 were rejected in the Office Action. Claims 1, 5-8, 12-15, 22 and 28 have been amended, new claim 29 has been added, and no claims have been canceled in this Amendment. Accordingly, claims 1-29 are pending herein. Claims 1-29 are believed to be in condition for allowance upon review and acceptance of these remarks. Favorable action is respectfully requested.

Amendments to the Claims

Claims 1, 5-8, 12-15, 22 and 28 have been amended herein. Care has been exercised to avoid the introduction of new matter. Support for the amendments to claims 1 and 8 may be found in the Specification, for example, at paragraphs [0022], [0023], and [0038]. Support for the amendments to claims 5 and 12 may be found in the Specification, for example, at paragraphs [0042] and [0043]. Support for the amendments to claims 6 and 13 may be found in the Specification, for example, at paragraphs [0022] – [0024] and [0042]. Support for the amendments to claims 7 and 14 may be found in the Specification, for example, at paragraph [0045]. Support for the amendments to claims 15, 22, and 28 may be found in the Specification, for example, at paragraphs [0022] – [0024] and [0038].

Rejections based on 35 U.S.C. § 102(e)

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *Verdeggal Brothers v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ 2d 1051, 1053 (Fed. Cir. 1987). "The identical invention must be shown in as complete detail as is contained in the . . .

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claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 2 USPQ 2d 1913, 1920 (Fed. Cir.

1989). Further, the elements must be arranged as required by the claim. See in re Bond, 910

F.2d 831, 15 USPO2d 1566 (Fed. Cir. 1990). See also, MPEP § 2131.

Claims 1-6, 8-13 and 28 are rejected under 35 U.S.C. § 102(e) as being

anticipated by Minyard et al., U.S. Patent No. 6,891,920 ("Minyard"). As Minyard fails to

describe, either expressly or inherently, every limitation for each of claims 1-6, 8-13 and 28, as

amended herein, Applicants respectfully traverse this rejection as hereinafter set forth.

Referring initially to independent claim 1, a computerized method is provided for

managing large studies transferred from at least one acquisition device to a study process server

in order to transfer the studies to at least one review station. The computerized method includes:

without having previously distributed the studies to a review station, sorting each received study

into at least one appropriate working set and selecting at least one subset of the received studies

from at least one working set; and automatically distributing the at least one selected subset of

studies to at least one review station such that the at least one selected subset of studies is

available on demand for review by a physician.

In contrast, Minyard discusses a mammographic imaging system and tools for

processing mammographic images. See, e.g., Minyard, Abstract. Images may be processed by

background processing that includes preprocessing and/or interim processing. $See\ id.$, Abstract,

col. 3, lines 15-27. Processing may include, for example, ordering the sequence of images for a

review session, annotating images, and optimizing image information for a particular display.

See, id., col. 3, line 16 through col. 4, line 57. Additionally, the system allows physicians to

manually tag images for later review. See, id., col. 4, lines 29-57.

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It is respectfully submitted that Minyard fails to describe, either expressly or

inherently, every limitation of independent claim 1, as amended herein. First, Minyard fails to

describe "without having previously distributed the studies to a review station, sorting each

received study into at least one appropriate working set and selecting at least one subset of the

received studies from at least one working set." The Office Action indicates that the feature of

selecting a subset of images is discussed in Minvard as physician tagging. See, e.g., Office

Action dated 4/30/2007, p.3, 10 and 11. In particular, Minyard discusses allowing a physician to

initially review a large number of images at a review station and tag an image for later review.

Accordingly, to allow a physician to tag images in Minyard, images first have to be transmitted

to a review station to allow the physician to review and tag images for later review. As such, a

to a review station to anow the physician to review and any images for face review. This stating a

subset of studies is not selected without having previously distributed the studies to a review

station as required by amended claim 1. Instead, in Minyard, the images are necessarily

distributed to a review station prior to the images being tagged by a physician in contrast to the

recited language of claim 1.

Additionally, Minyard fails to describe "automatically distributing the at least one

selected subset of studies to at least one review station such that the at least one selected subset

of studies is available on demand for review by a physician" as recited in amended claim 1. In

the invention of claim 1, a subset of studies is selected (without having been previously

distributed to a review station) and then automatically distributed to at least one review station

such that the subset of studies is available on demand by a physician without requiring the

physician to wait while the studies are transferred to the review station. As discussed in the

physician to wait while the studies are transferred to the review station. As discussed in the

Specification, this allows review stations to be primed with a subset of studies available for review upon demand without creating excessive network traffic and consuming excessive

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memory resources that would be required to transfer all studies to review stations. It is

respectfully submitted that Minyard is not concerned with distributing studies from a server to

reviewing stations in a manner that provides for immediate access to a subset of the studies

without creating excessive network traffic and consuming excessive memory resources. Instead,

in Minyard, images are first transferred to a review station for initial review by a physician who

may tag the images for later review. The physician may then request the tagged images at a later

time. This mode of operation is completely different from selecting a subset of studies without

having previously distributed the studies to a review station and then automatically transferring

the subset to a review station such that the studies are available upon demand for review by a

physician.

It is respectfully submitted that Minyard fails to describe, either expressly or

inherently, each and every element of amended independent claim 1, and, as such, claim 1 is not

anticipated by the Minyard. Accordingly, Applicants respectfully request withdrawal of the

rejection of claim 1 under 35 U.S.C. § 102(e). Claim 1 is believed to be in condition for

allowance and such favorable action is respectfully requested.

Independent claim 8 recites a system for managing large studies transferred from

at least one acquisition device to a study process server in order to transfer the studies to at least

one review station. The system includes the following modules: a study sorting module for

sorting each study received by the study process server into at least one appropriate working set;

a study control module for automatically selecting at least one subset of studies from at least one

working set without user input; and a study distribution module for automatically distributing the

selected at least one subset of studies to at least one selected review station such that the at least

one selected subset of studies is available on demand for review by a physician.

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Applicants respectfully submit that Minyard fails to describe, either expressly or

inherently, each and every limitation of independent claim 8, as amended herein. First, Minyard

fails to describe "a study control module for automatically selecting at least one subset of studies

from at least one working set without user input." Instead, Minyard discusses allowing a

physician to tag images for later review. A physician tagging images for later review as in

Minyard does not comprise a study control module that automatically selects a subset of studies

from a working set without user input as recited in claim 8,

Minvard additionally fails to describe "a study distribution module for

automatically distributing the selected at least one subset of studies to at least one selected

review station such that the at least one selected subset of studies is available on demand for

review by a physician," Minyard simply fails to discuss a system in which a review station is

primed with a subset of studies such that the subset of studies are available to a physician on

demand.

It is respectfully submitted that Minyard fails to describe, either expressly or

inherently, each and every element of amended independent claim 8, and, as such, claim 8 is not

anticipated by the Minyard. Accordingly, Applicants respectfully request withdrawal of the

rejection of claim 8 under 35 U.S.C. § 102(e). Claim 8 is believed to be in condition for

allowance and such favorable action is respectfully requested.

Independent claim 28, as amended herein, is directed to one or more computer-

readable media embodying computer-useable instructions for performing a computerized method

for managing the transfer of studies to a plurality of review stations, wherein the studies are

grouped into a plurality of working sets. The method includes automatically selecting at least

one subset of studies from at least one working set; automatically distributing at least one subset

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of studies to each of the plurality of review stations such that at least one subset of studies is

available on demand for review by a user at each of the plurality of review stations; monitoring

the plurality of review stations for one or more selected user activities; and upon detecting at

least one of the one or more selected user activities at a review station selected by a user,

transferring additional studies to the selected review station,

Minyard fails to describe, either expressly or inherently, multiple limitations of

claim 28. For instance, Minyard fails to discuss the feature of automatically distributing a subset

of studies to a plurality of review stations such that studies are available on demand for review

by a physician at each of the review stations. Minyard merely discusses allowing a user to tag

images for later review at a given workstation and does not discuss automatically distributing

subsets of studies to multiple review stations.

Additionally, Minyard fails to describe the features of monitoring a plurality of

review stations for selected user activities, and upon detecting a selected user activity at a review

station selected by a user, transferring additional studies to the selected review station. Minyard

is completely silent with respect to these features.

It is respectfully submitted that Minyard fails to describe, either expressly or

inherently, each and every element of amended independent claim 28, and, as such, claim 28 is

not anticipated by the Minyard. Accordingly, Applicants respectfully request withdrawal of the

rejection of claim 28 under 35 U.S.C. § 102(e). Claim 28 is believed to be in condition for

allowance and such favorable action is respectfully requested.

Claims 2-6 depends from independent claim 1, claims 9-13 depend from claim 8.

and claim 29 depends from independent claim 28. Accordingly, these claims are believed to be

in condition for allowance for at least the above-cited reasons. As such, Applicants respectfully

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request withdrawal of the 35 U.S.C. § 102(e) rejections of these claims as well. Furthermore,

many of these dependent claims recite further patentable features that are not described, either

expressly or inherently, by Minyard, For instance, claims 6 and 13 recite limitations directed to

monitoring review stations for selected user activities after a selected subset has been distributed

to a review station and populating a review station with additional studies upon detecting a

selected user activity. Minvard fails to describe these further features in the context of the

features recited in the base independent claims 1 and 8.

Rejections based on 35 U.S.C. § 103(a)

A. Applicable Authority

Title 35 U.S.C. § 103(a) declares, a patent shall not issue when "the differences

between the subject matter sought to be patented and the prior art are such that the subject matter

as a whole would have been obvious at the time the invention was made to a person having

ordinary skill in the art to which said subject matter pertains." The Supreme Court in Graham v.

John Deere counseled that an obviousness determination is made by identifying; the scope and

content of the prior art; the level of ordinary skill in the prior art; the differences between the

claimed invention and prior art references; and secondary considerations. Graham v. John Deere

Co., 383 U.S. 1 (1966).

To support a finding of obviousness, the initial burden is on the Office to apply

the framework outlined in Graham and to provide some reason, or suggestions or motivations

found either in the prior art references themselves or in the knowledge generally available to one

of ordinary skill in the art, to modify the prior art reference or to combine prior art reference

teachings to produce the claimed invention. See, Application of Bergel, 292 F. 2d 955, 956-957

(1961). Thus, in order "[t]o establish a prima facie case of obviousness, three basic criteria must

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be met. First, there must be some suggestion or motivation, either in the references themselves

or in the knowledge generally available to one of ordinary skill in the art, to modify the reference

or to combine reference teachings. Second, there must be a reasonable expectation of success [in

combining the references]. Finally, the prior art reference (or references when combined) must

teach or suggest all the claim limitations." See MPEP § 2143. Recently, the Supreme Court

elaborated, at pages 13-14 of KSR, it will be necessary for [the Office] to look at interrelated

teachings of multiple [prior art references]; the effects of demands known to the design

community or present in the marketplace; and the background knowledge possessed by [one of]

ordinary skill in the art, all in order to determine whether there was an apparent reason to combine the known elements in the fashion claimed by the [patent application]." KSR v. Teleflex.

127 S. Ct. 1727 (2007).

B. Obviousness Rejection Based on the Minyard and Fuller References

Claims 7 and 14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over

Minyard as applied to claims 1-6, 8-13 and 28 in view of Fuller, U.S. Patent Publication

No. 2005/0050552 ("Fuller"). Applicants respectfully traverse this rejection, as hereinafter set

forth.

Initially, Applicants respectfully submit that Minyard and Fuller fail to teach or

suggest each limitation of claims 7 and 14. Claim 7 depends from independent claim 1, and

claim 14 depends from independent claim 8. The Office Action appears to rely on Minyard for

teaching or suggesting the limitations of the base claims 1 and 8. However, Minyard fails to

teach or suggest all limitations from the base claims as described hereinabove. The addition of

Fuller fails to correct these deficiencies. As such, claims 7 and 14 are patentable at least based

on their dependencies from claims 1 and 8.

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Additionally, Fuller fails to teach or suggest the limitations for which it was cited,

namely the additional features recited in claims 7 and 14. In particular, Fuller is directed to

delivering data from a device driver to an application within a computer in a way that optimizes

processing, which is wholly inapplicable to managing large studies between a central server and

review stations (e.g., in a hospital). This disclosure in Fuller fails to teach or suggest the

limitations of claims 7 and 14. Fuller does not discuss monitoring a review station for a low

buffer threshold and re-populating any review station reaching the low buffer threshold with at

least one additional subset of studies. Instead, Fuller is concerned with delivering data from an

application to a device driver, which clearly does not meet the limitations recited in claims 7 and

14. As such, the rejection of claims 7 and 14 at least fails to meet the *Graham* factors of

determining the scope and contents of the prior art, and ascertaining the differences between the

prior art and the claims at issue. Clearly, there are significant differences between the prior art

and the claims at issues as delivering data to a device driver as described in Fuller is significantly

different from monitoring review stations and re-populating a review station with a subset of

studies when a low buffer threshold is determined.

Further, there is no suggestion or motivation to combine Fuller's teaching with

the teaching of Minyard. The Office Action has not presented any apparent reason why someone

of ordinary skill in the art would have combined Minyard and Fuller. The sole rationale

provided in the Office Action to combine Minyard and Fuller is that "[i]t would have been

obvious to one of ordinary skill in the data processing art at the time of the present invention to

combine the teachings of the cited references because Fuller's system would have provided

Minyard's invention with [sic] enhancing the likelihood that the requested data are available for

immediate delivery." Office Action dated 4/30/2007, p. 4-5. The Office Action cannot rely on

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the benefit of the combination without first supporting the motivation to make the combination.

Such motivation does not appear anywhere in either of the references, and the Office Action has

not presented any actual evidence in support of the same. Instead, the Office Action relies on

broad conclusory statements. Such a basis does not adequately support the combination of

references. Neither Minyard nor Fuller discloses or suggests a motivation to combine with the

other to achieve the claimed invention. The references themselves do not suggest the viability of

making the combination, and someone of ordinary skill in the art would not think to combine

them. There is no apparent reason why one of ordinary skill in the art would have combined the

Minvard and Fuller references or otherwise modified the references to achieve the inventions of

claims 7 an 14. Instead, the rejection appears to be based on hindsight. Thus, the references are

not properly combined.

Additionally, Applicants submit that the combination of the Minyard and Fuller

references in the Office Action is based on a mischaracterization of the Fuller reference. In

particular, Applicants traverse the statement that "the Minyard and Fuller reference are

analogous and in the same field of endeavor as both are at least related to processing and

delivering data in a network environment." Office Action dated 4/30/2007, p. 11. The Fuller

reference simply is not concerned with processing and delivering data in a network environment.

To the extent the Examiner disagrees, the Examiner is requested to provide a citation to a portion

of the Fuller reference discussing transferring studies over a network to a review station.

Applicants also traverse the Office Action's conclusion that the Fuller reference is analogous art,

As indicated above. Fuller is directed to delivering data from a device driver to an application

within a computer in a way that optimizes processing. Clearly, Fuller is not in the field of

Applicants' endeavor. Moreover, Applicants were concerned with distributing studies from a

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central server to review stations in a manner that prevents creating excessive network traffic and

consuming excessive memory resources, not with optimizing the performance of an application

operating on a computer. Since Fuller is neither in the field of Applicants' endeavor nor

reasonably pertinent to the particular problem with which Applicants were concerned, it cannot

be relied on as a basis for rejecting claims 7 and 14,

Nonetheless, as indicated above, even if the references were combined, the

combination of Minyard and Fuller fails to teach or suggest all limitations of claims 7 and 14.

Nothing in either Minyard or Fuller teaches or suggests monitoring a review station for a low

buffer threshold and re-populating a review station with additional studies upon detecting a low

buffer threshold. Further, the Office Action fails to provide any rationale for modifying the

Minyard and Fuller references to achieve the inventions of claims 7 and 14.

For at least the above-cited reasons, Applicants submit that claims 7 and 14 are

non-obvious over Minvard and Fuller. Accordingly, Applicants respectfully request withdrawal

of the rejection of claims 7 and 14 under 35 U.S.C. § 103(a). Claims 7 and 14 are believed to be

in condition for allowance and such favorable action is respectfully requested,

C. Obviousness Rejection Based on the Minyard and Rothschild References

Claims 15-20 and 22-27 are rejected under 35 U.S.C. § 103(a) as being

unpatentable over Minvard in view of Rothschild et al., U.S. Patent Publication

No. 2002/0016718 ("Rothschild"). Applicants respectfully traverse this rejection, as hereinafter

set forth.

Referring initially to independent claim 15, a computerized method is recited for

managing studies transferred from at least one acquisition device to a study process server in

order to transfer the studies to at least one review station. The method includes automatically

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transferring a selected subset of the existing studies from the study process server to at least one

review station such that the selected subset of the existing studies is available for review upon

login; monitoring the at least one review station for a login; and populating the at least one

review station with additional studies from at least one relevant working set upon detecting the

login.

Applicants initially submit that Minvard and Rothschild, either alone or in

combination, fail to teach or suggest all limitations of independent claim 15. In particular, the

references fail to teach or suggest populating a review station (that has been pre-populated with a

selected subset of studies) with additional studies from a working set upon detecting a login. As

indicated above, Minyard discusses physician tagging that occurs after images have been

transmitted for a physician to review and tag for later review. As such, Minvard simply fails to

teach or suggest transferring a subset of studies to a review station and then monitoring and

populating the review station with additional studies upon detecting a login. Additionally,

Rothschild discusses a system that either pushes images to a remote location as the images are

received or waits for a triggering event to push the images to the remote location and not a

combination of both

In contrast to Minyard and Rothschild, the invention of claim 15 is directed to

first distributing a subset of studies to a review station (such that some studies are readily

available at the review station upon a login) and then distributing additional studies upon

detecting a login. Accordingly, when a physician logs into a review station, some studies are

readily available for the physician's review while additional studies are transferred to the review

station in the background. Nothing in Minyard and/or Rothschild teaches or suggests this

approach. At best, a combination of Rothschild with Minyard would merely provide a system

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that pushes images to a review station upon detecting a login. However, the invention of claim 15 advances the state of the art as it is directed to first priming a review station with a subset of studies such that the subset is immediately available upon login and then transferring additional studies to the review station upon detecting a login.

For at least the above-cited reasons, Applicants submit that claim 15 is nonobvious over Minyard and Rothschild. Independent claim 22 contains limitations similar to claim 15 and is non-obvious for at least the above-cited reasons set forth for claim 15. Further, because claims 16-20 depend from claim 15 and claims 23-27 depend from claim 22, these claims are similarly non-obvious over the cited references. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 15-20 and 22-27 under 35 U.S.C. § 103(a). Claims 15-27 are believed to be in condition for allowance and such favorable action is respectfully requested.

D. Obviousness Rejection Based on the Minyard, Fuller, and Rothschild References

Claim 21 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Minyard as applied to claims 1-6, 8-13 and 28 in view of Minyard and Rothschild as applied to claims 15-20 and 22-27 above and further in view of Fuller. Applicants respectfully traverse this rejection, as hereinafter set forth. In particular, Applicants respectfully submit that Minyard, Rothschild, and Fuller fail to teach or suggest each and every limitation of claim 21. Claim 21 depends from independent claim 15. The Office Action appears to rely on Minyard and Rothschild for teaching or suggesting the limitations of the base claim 15. See Office Action dated 4/30/2007, p. 5. However, Minyard and Rothschild fail to teach or suggest all limitations from the base claim as described hereinabove. The addition of Fuller fails to correct these deficiencies. As such claim 21 is patentable at least based on its dependency from claims 15.

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CONCLUSION

For at least the reasons stated above, claims 1-29 are now in condition for

allowance. Applicants respectfully request withdrawal of the pending rejections and allowance

of the claims. If any issues remain that would prevent issuance of this application, the Examiner

is urged to contact the undersigned – 816-474-6550 or $\underline{jgolian@shb.com}$ (such communication

via email is herein expressly granted) - to resolve the same. The Commissioner is hereby

authorized to charge any amount required, or refund any applicable amount, to Deposit Account

No. 19-2112.

Respectfully submitted,

/John S. Golian/

John S. Golian Reg. No. 54,702

DPD/JSG/bp SHOOK, HARDY & BACON L.L.P. 2555 Grand Blvd. Kansas City, MO 64108-2613 816-474-6550

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